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ANNUAL REPORT TO THE

BOARD OF SUPERVISORS

COUNTY SURVEYOR'S OFFICE - no offices in

JANUARY 1, 1976

County & Dist. Surveyor

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COUNTY OF ORANGE
ENVIRONMENTAL MANAGEMENT AGENCY
DEVELOPMENT DIVISION
400 CIVIC CENTER DRIVE WEST
SANTA ANA, CA.

TELEPHONE: 834-2300
AREA CODE 714

MAILING ADDRESS
P.O. BOX 1078
SANTA ANA, CA. 92702

H. G. OSBORNE
DIRECTOR

C. R. NELSON
ASSISTANT DIRECTOR
DEVELOPMENT

FILE

The Honorable Board of Supervisors
County of Orange
Santa Ana, California, 92702

SUBJECT: Annual Report, County Surveyor's Office

Gentlemen:

Transmitted herewith is the annual report of the County Surveyor's Office, which summarizes the activities of this office for the 1975 calendar year.

RECOMMENDATION: Receive and file.

Respectfully submitted,

C. R. Nelson
County Surveyor

RVW:ik
Enclosure

cc: County Administrative Office

Concurred:

H. G. Osborne, Director

A 2756

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ANNUAL REPORT TO THE BOARD OF SUPERVISORS
SURVEY SECTION - EMA
January 1, 1976

The Survey Section of the EMA consists of two separate groups: Office and Field Survey. The duties of each group and the work performed during 1975 are as follows:

SUBDIVISION MAP CHECKING UNIT - OFFICE GROUP

This unit examines all tract maps, parcel maps, and record of survey maps before they are filed or recorded. Tracts in unincorporated territory are checked for mathematical accuracy and for compliance with the Subdivision Map Act and County Ordinances. City tracts are checked only for compliance with the Subdivision Map Act.

A breakdown of recorded tracts by unincorporated territory and incorporated territory with a comparison between 1974 and 1975 is as follows:

	1974	1975	PERCENT OF 1974	ACREAGE 1975	LOTS 1975	AVERAGE LOTS PER TRACT-1975
INCORPORATED	163	171	105%	2275.40	6161	36.0
UNINCORPORATED	39	62	159%	916.99	2975	48.0
TOTAL	202	233	115%	3192.39	9136	39.2

A breakdown of recorded tracts by Supervisorial Districts is as follows:

DISTRICT	TRACTS	ACRES	LOTS
1	9	71.53	214
2	13	114.94	473
3	48	924.40	2320
4	55	636.92	1685
5	108	1444.60	4444

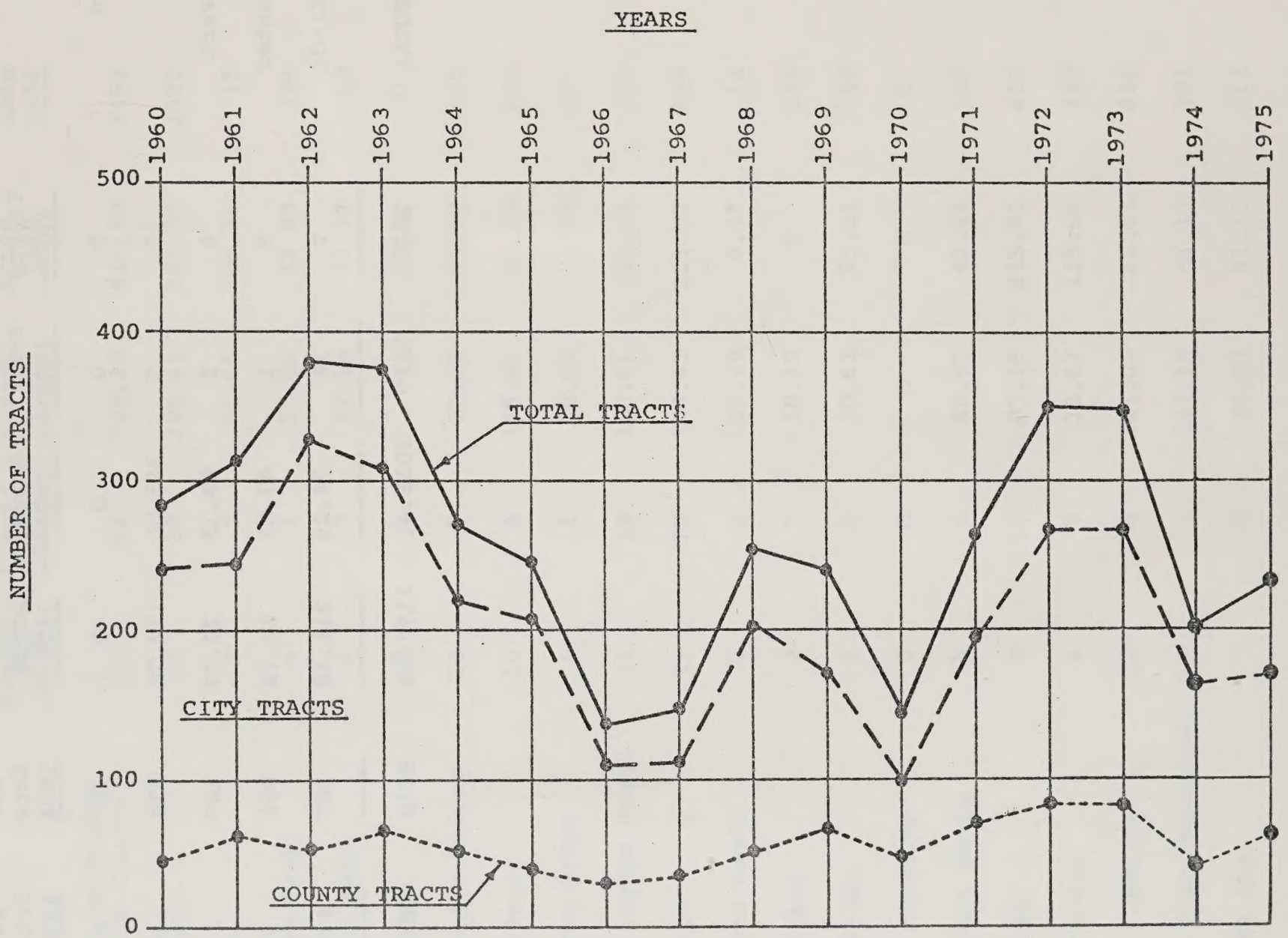
YEAR 1975 - TOTAL NUMBER OF TRACTS RECORDED

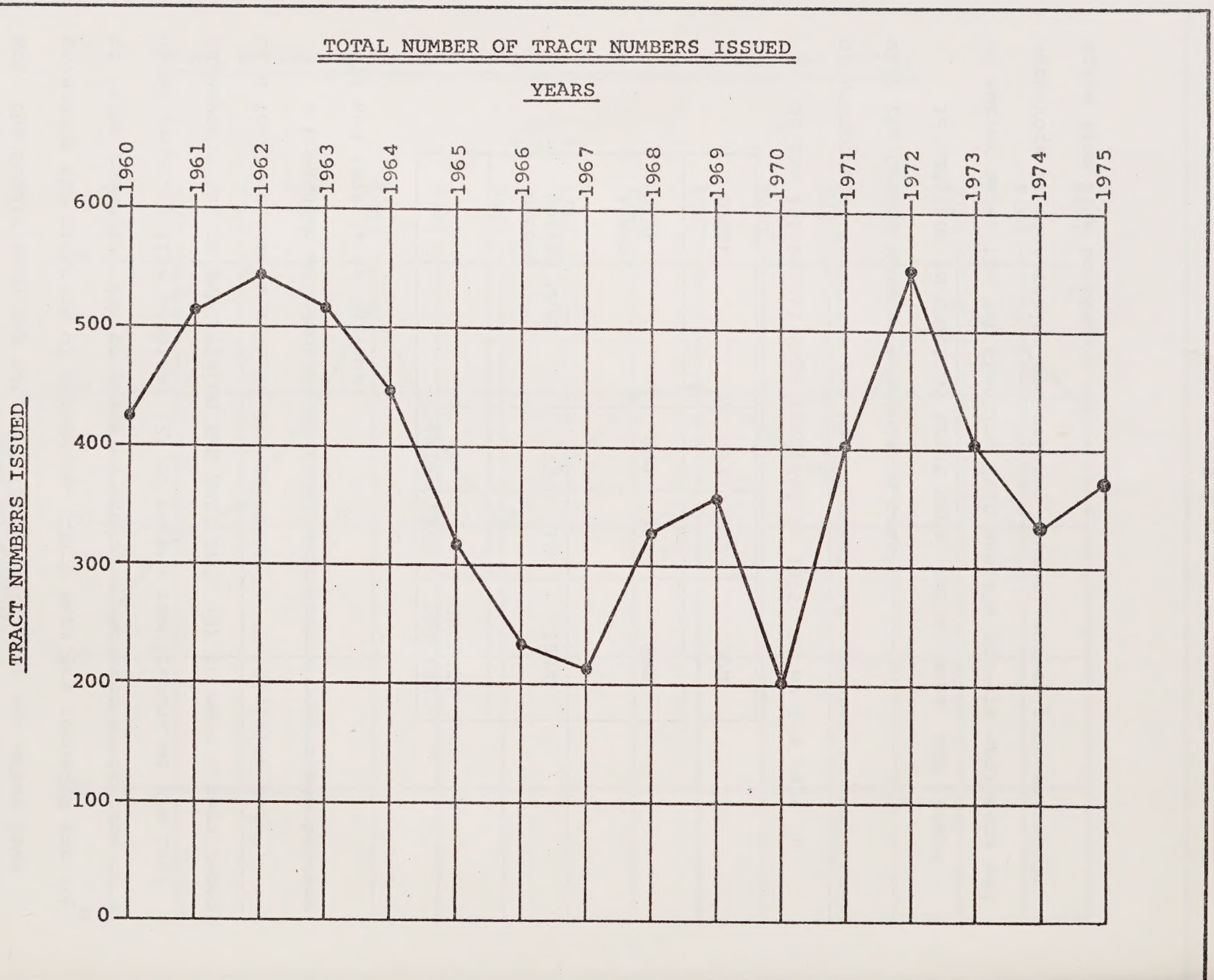
	No. Tracts 1974	No. Tracts 1975	No. Acres 1974	No. Acres 1975	No. Lots 1974	No. Lots 1975
Unincorporated Orange County	39	62	799.28	916.99	1497	2975
Anaheim	15	28	298.67	343.77	1002	1024
Brea	2	5	61.65	366.38	15	408
Buena Park	4	2	59.82	13.85	194	91
Costa Mesa	4	7	37.28	22.77	39	53
Cypress	0	3	0	10.30	0	32
Fountain Valley	11	7	97.62	66.42	441	208
Fullerton	10	4	176.80	96.18	672	332
Garden Grove	5	1	28.62	1.65	227	7
Huntington Beach	11	18	120.61	202.41	429	890
Irvine	11	22	224.41	225.62	630	556
Laguna Beach	2	2	10.99	0.47	31	2
La Habra	2	0	18.39	0	179	0
La Palma	3	3	10.61	35.51	58	199
Los Alamitos	0	0	0	0	0	0
Newport Beach	6	4	88.57	43.41	154	16
Orange	9	17	87.16	218.91	492	578
Placentia	4	7	35.67	115.96	210	532
San Clemente	14	6	141.07	31.81	616	252
San Juan Capistrano	10	4	137.38	53.10	701	179
Santa Ana	7	6	97.01	41.32	331	83
Seal Beach	1	1	1.55	7.79	1	2

YEAR 1975 - TOTAL NUMBER OF TRACTS RECORDED

	No. Tracts 1974	No. Tracts 1975	No. Acres 1974	No. Acres 1975	No. Lots 1974	No. Lots 1975
Stanton	0	0	0	0	0	0
Tustin	12	5	293.00	132.78	314	158
Villa Park	8	2	88.13	22.79	149	37
Westminster	5	1	47.83	10.72	261	52
Yorba Linda	7	16	74.29	211.48	167	470
GRAND TOTAL	202	233	3036.41	3192.39	8810	9136

NUMBER OF RECORDED TRACTS




TOTAL NUMBER OF TRACT NUMBERS ISSUED
YEARS
TRACT NUMBERS ISSUED
1960
1961
1962
1963
1964
1965
1966
1967
1968
1969
1970
1971
1972
1973
1974
1975
600
500
400
300
200
100
0

Record of Survey Maps and Parcel Maps are checked by this unit for mathematical accuracy and for compliance with the Land Surveyor's Act, the Subdivision Map Act, and local ordinances and other laws governing the practice of surveying. Such maps are recorded for any of three reasons: (1) to place on record a surveyor's solution to a given property line problem; (2) to meet a requirement of the Land Surveyor's Act or Subdivision Map Act; and, (3) to meet a requirement of a local ordinance such as Orange County's "Subdivision Code".

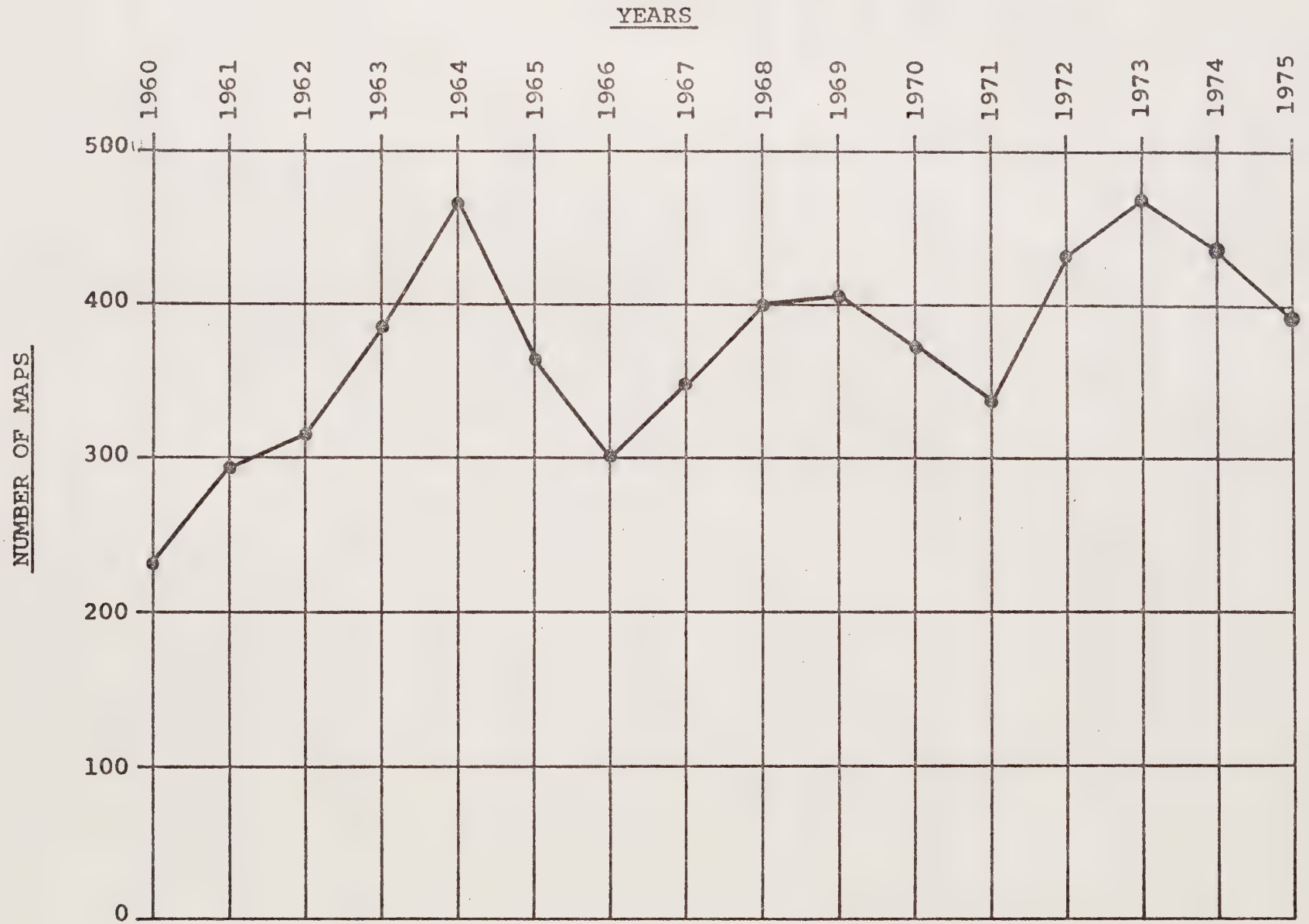
A breakdown of recorded or filed maps with a comparison between 1974 and 1975 is as follows:

	1974	1975	PERCENT OF 1974
RECORD OF SURVEY MAPS	37	38	103%
PARCEL MAPS	400	355	89%
TOTAL	437	393	90%

Of the 355 Parcel Maps recorded in 1975, 55 or 15% were in unincorporated territory and were checked and recorded in compliance with the Orange County "Subdivision Code".

In addition to checking tract maps, parcel maps, and record of survey maps, the Map Checking Unit assists private engineers and surveyors in researching and solving unusual survey problems which arise from time to time.

TOTAL NUMBER OF RECORDED PARCEL MAPS AND RECORDS OF SURVEY



MAP DRAFTING UNIT - OFFICE GROUP

This unit maintains 92 county road maps, 81 county precinct maps and performs miscellaneous drafting work as required.

COUNTY ROAD MAPS: The County Road Maps show streets, subdivisions, records of surveys, parcel maps, county surveyor's maps, city boundaries, public properties, relinquishments of state highways to local jurisdiction and abandonments of public streets and public properties. The following changes were made on the road maps and their tracings during 1975:

215 New subdivisions were plotted.

228 New recorded documents affecting county properties and rights of way were delineated.

45 New city annexations of county territories were plotted.

COUNTY PRECINCT MAPS: The county precinct maps show all streets, precinct boundaries, census tracts, school districts, supervisorial districts, judicial districts, congressional districts, assembly districts, senatorial districts, and city boundaries. The following changes were made on the precinct maps and their overlays during 1975:

2006 Revisions were made at the request of the Registrar of Voters and as caused by city annexations and incorporations of county territory.

215 New subdivisions were plotted.

OFFICIAL COUNTY MAPS: Official county maps are located in various offices throughout the county. Eighteen maps were periodically updated to show correct city boundaries which changed due to annexations.

MISCELLANEOUS DRAFTING WORK: Consists of maps drafted or display maps prepared.

3	Maps for the Board of Supervisors
50	Maps for Survey Field Section
47	Maps for EMA Administrative Offices
209	Maps for Refuse Division
33	Maps for Registrar of Voters
7	Maps for Deputy County Surveyor
114	Maps for County Surveyor's Office
1	Map for Board of Education
1	Map for County Administrative Office
5	Maps for Analytical Services

BOUNDARY UNIT - OFFICE GROUP

This unit examines all descriptions and maps of proposed formations, annexations and/or de-annexations involving cities or districts, and reports its findings to the Board of Supervisors or the Local Agency Formation Commission.

When districts are involved such as school districts, judicial districts and districts governed by the Board of Supervisors, this unit prepares the necessary maps and legal descriptions for all formations and boundary changes.

During 1975 there were thirty-eight maps prepared and accompanying legal descriptions written for various districts such as County Service Areas, Orange County Street Lighting Maintenance Districts and School Districts. In addition ninety-one exhibit maps were prepared for various county departments and ninety-three display and exhibit maps were prepared for the Local Agency Formation Commission.

There are one hundred sixty-five master maps and folders maintained by this unit. During 1975, six district folders were researched and brought up to date with new master maps prepared for each district.

In the following table, the first column indicates the number of proposed annexations and/or de-annexations to cities; the second column indicates the number of annexations and/or de-annexations which became final; and the third column indicates the number of acres included within the annexation and/or de-annexation which became final.

CITIES	PROPOSED ANNEXATIONS	ANNEXATIONS FINALIZED	NO. OF ACRES INCLUDED WITHIN ANNEXATIONS
Anaheim	10	4	53.337
Brea	2	1	93.899
Buena Park	1	1	2.861
Costa Mesa	4	4	28.331
Cypress	1	1	2.830
Fountain Valley	0	0	0
Fullerton	1	0	0
Garden Grove	0	0	0
Huntington Beach	0	0	0
Irvine	0	1	25.000
Laguna Beach	0	2	10.351
La Habra	11	4	10.660
La Palma	2	1	16.140
Los Alamitos	0	0	0
Newport Beach	1	1	6.290
Orange	7	7	143.914
Placentia	1	1	21.536
San Clemente	0	0	0
San Juan Capistrano	0	0	0
Santa Ana	2	1	30.400
Seal Beach	1	2	1,387.000
Stanton	2	1	2.750

Tabulated below in a similar manner as city boundary changes are the number of descriptions and maps processed for various taxable districts of the county.

NUMBER AND TYPE OF DISTRICTS		PROPOSED ANNEXATIONS	ANNEXATIONS FINALIZED
9	Sanitary	37	26
8	Sanitation	8	9
10	Lighting	19	17
12	Lighting Maintenance	33	25
3	Highway Lighting	1	1
4	Recreation & Park	4	3
3	Sewer Maintenance	0	3
13	County Service Areas	21	16
4	Library	3	2
21	Water	26	20
1	Mosquito Abatement	1	1
TOTAL		153	123

CITIES	PROPOSED ANNEXATIONS	ANNEXATIONS FINALIZED	NO. OF ACRES INCLUDED WITHIN ANNEXATIONS
Tustin	5	2	42.168
Villa Park	0	0	0
Westminster	1	1	17.900
Yorba Linda	4	4	750.686
TOTAL	56	39	2,646.053

FIELD SURVEY GROUP

The Field Survey Group maintains and extends horizontal and vertical control surveys, retraces section lines, and references and retraces street center lines throughout the County. This information is made available to the general public. In addition, this section does the field survey work for the projects of the Environmental Management Agency and other County departments as requested. The group is made up of eleven field survey parties and an office unit for computations.

HORIZONTAL CONTROL SURVEYS

Horizontal control surveys are made to establish and maintain the coordinated network of points on a single datum for the benefit of all engineering projects or boundary surveys within the County.

Major projects for which horizontal control has been completed during 1975 are:

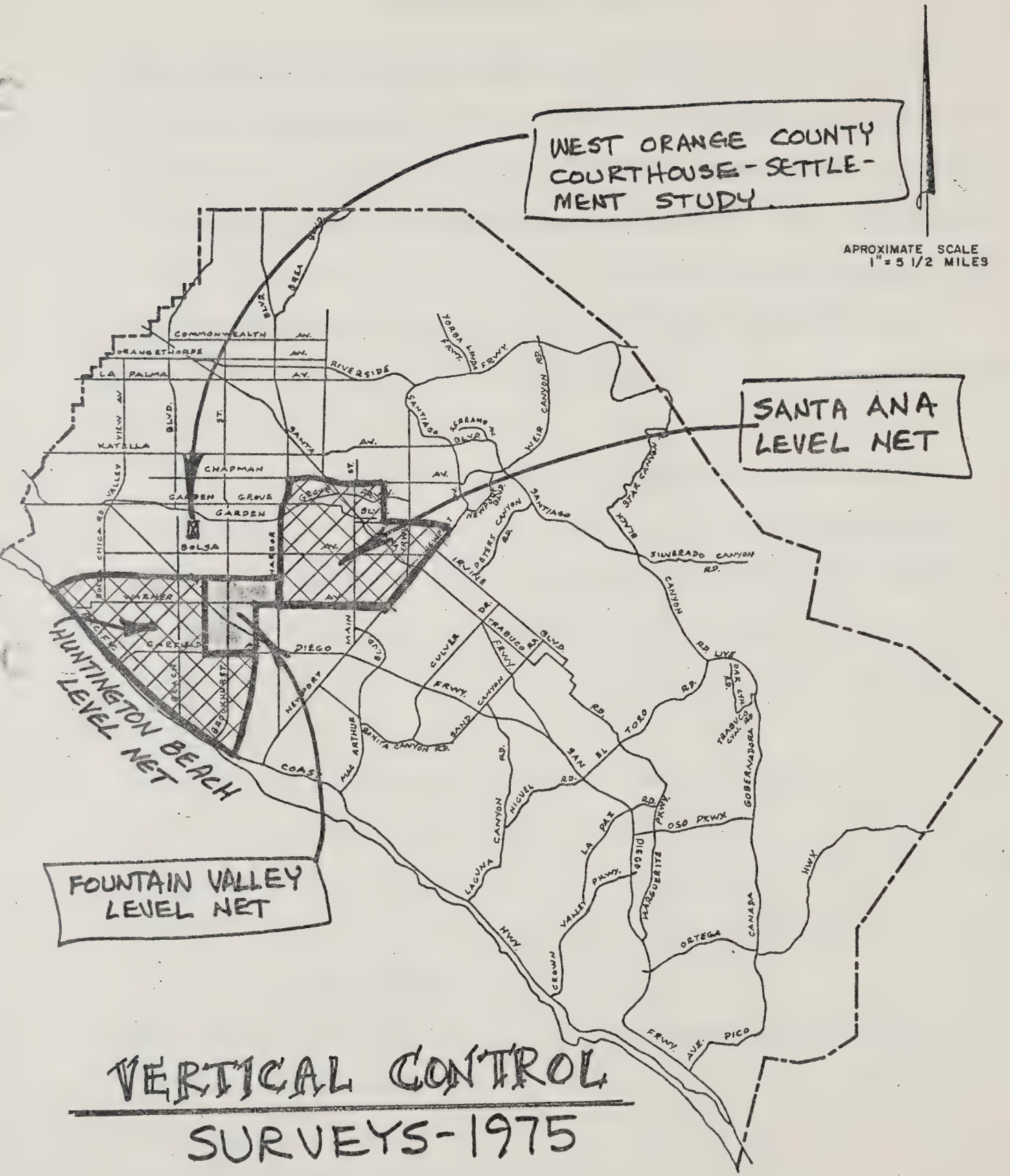
1. Tonner Canyon Earth Movement Study (observed twice)
2. Yorba Linda Earth Movement Study (observed twice)
3. Seal Beach Earth Movement Study (observed twice)
4. Huntington Beach Earth Movement Study (observed twice)
5. Joplin Boys Ranch Control (T.6 S., R.7 W.)
6. Updating all horizontal control to the Orange County Surveyor's 1-1-75 Datum.
7. Laguna Sections Control
8. West Orange County Centerline Tie-in

VERTICAL CONTROL SURVEYS

The vertical control surveys establish a precise common datum for elevations throughout the County. This information is made available to the general public. By releveling all previously established lines, it is determined where crustal movements have taken place within the County.

Approximately 180 miles of precise leveling was accomplished during 1975. The major projects are as follows:

1. Huntington Beach Level Net
2. Fountain Valley Level Net
3. Santa Ana Level Net
4. West County Courthouse Settlement Study


WEST ORANGE COUNTY COURTHOUSE - SETTLEMENT STUDY
APROXIMATE SCALE 1" = 5 1/2 MILES
SANTA ANA LEVEL NET
HUNTINGTON BEACH LEVEL NET
FOUNTAIN VALLEY LEVEL NET
VERTICAL CONTROL
SURVEYS - 1975
COMMONWEALTH AV.
ORANGETHORPE AV.
LA PALMA AV.
RIVERSIDE
SANTA ANA
KATELLA
CHAPMAN
GARDEN GROVE
GARDEN GROVE BLVD.
BOLSA
WARNER
GARFIELD
DIEGO
MAIN
BEACH BLVD.
NEWPORT
BRUSHWOOD
COAST
MACARTHUR
BONITA CANYON RD.
SAND CANYON
CULVER DR.
FRWY.
TRABUCO RD.
BLVD.
IRVINE
PETERS CANYON RD.
NEWPORT BLVD.
SANTIAGO
SERRANO
WEIR CANYON RD.
YORBA LINDA FRWY.
STAR CANYON
SILVERADO CANYON RD.
CANYON RD.
TORO RD.
SAN ANTONIO
GOBERNADORA
OSO PKWY.
LA PAZ RD.
PKWY.
LAGUNA CANYON
NIGUEL RD.
SAN JOAQUIN
VALLEY
HARBOR BLVD.
CROWN
HWY.
ORTEGA
CANADA
FRWY.
AVE. PICO

CENTERLINE SURVEYS

During 1975 approximately 30 miles of centerline were surveyed and referenced in the County. The following projects were completed during this period:

1. Orangethorpe Avenue - Miller Street to Imperial Highway
2. Jeronimo Road - Los Alisos Boulevard to El Toro Road
3. Alicia Parkway - Paseo de Valencia to Muirlands Boulevard
4. Paseo de Valencia - La Paz Road to Alicia Parkway
5. Aliso Creek Road - La Paz Road to Alicia Parkway
6. Alicia Parkway - Niguel Road to Aliso Creek Road
7. La Paz Road - Aliso Creek Road to Moulton Parkway
8. Carlton Tract - Record of Survey and Centerline Ties
9. Los Alisos Boulevard - Rockfield Boulevard to Muirlands Boulevard
10. Muirlands Boulevard - Los Alisos Boulevard to El Toro Road
11. Campus Drive - Jamboree Road to University Drive
12. N.E. ¼, Sec. 28-5-11 bounded by Warner Avenue, Springdale Street, Slater Avenue and Graham Street.
13. Kraemer Boulevard - Crowther Avenue to Imperial Highway
14. Jeronimo Road - El Toro Road to Cañada Road
15. El Toro Road - Trabuco Road Northerly 1.95 miles
16. Cañada Road - New El Toro Road to Old El Toro Road
17. Muirlands Boulevard - El Toro Road to Cañada Road
18. Block 15, Yorba Linda Tract - Record of Survey and Centerline Ties
19. Ridge Route Drive - Rockfield Boulevard to Toledo Way

ARTERIAL HIGHWAY CENTERLINE SURVEYS

During 1975 approximately 6 miles of Arterial Highway centerline in Westerly Orange County were surveyed and referenced. The following projects were completed during this period:

1. Santiago Canyon Road - Chapman Ave to Santiago Blvd.
2. Windes Drive - Santiago Canyon Road Northerly
3. Dyer Road - Main Street to Halladay Street
4. Alton Avenue - Main Street to Standard Avenue
5. Main Street - Mac Arthur Boulevard to Dyer Road
6. Halladay Street - Alton Avenue to Dyer Road
7. Oak Street - Alton Avenue to Dyer Road

BOUNDARY SURVEYS

The following boundary surveys were completed in 1975:

1. Brea Creek Channel A04 - Imperial Hwy to Lambert Rd.
2. Brea Creek Channel A04 - Lambert Rd. to 1100' N/O Central
3. Bolsa Chica Channel C02 - Orangewood to Cerritos
4. Iglesia Park - Homeowner's Parcel
5. 1000 Steps Beach Access location
6. Aspan Park - Tie out monuments
7. Dana Point/Laguna Niguel Library - Parcel Map
8. Laguna Sections - Record of Survey
9. East Line Yorba Linda Tract - Record of Survey
10. Carlton Tract - Record of Survey
11. Tri-County Corner Reset - Corner Record
12. Block 15, Yorba Linda Tract - Record of Survey
13. Warner Ave. @ Santa Ana River - Record of Survey
14. Ridge Route Dr. - Moulton to Rockfield - S.M. Map
15. Aliso Creek J01 - thru C. West's property
16. Aliso Creek J01 - New line thru Hall Ranch property

PHOTOGRAMMETRIC SURVEYS

Photogrammetric surveys are generally used to obtain preliminary survey information of a large area for planning and design of various projects. The field survey group prepares the agreement with the photogrammetrist, establishes the vertical and horizontal control and checks the final maps for accuracy and agreement with the specifications. The photogrammetric surveys completed in 1975 are:

1. Caspers Regional Park at Starr-Viejo
2. Prima Deschecha - Southwesterly of Mission Viejo Rancho Line
3. Olinda Refuse Disposal Station #20 - Volume determination only.
4. Coyote Refuse Disposal Station #24 - Mapping and Volume Determination.
5. Santiago Refuse Disposal Station #25 - Mapping and Volume Determination.

MISCELLANEOUS SURVEYS

The following miscellaneous surveys were completed in 1975:

1. Settlement monuments - Disposal Station #17
2. Settlement monuments - Disposal Station #20
3. Settlement monuments - Disposal Station #24
4. Settlement monuments - Disposal Station #25
5. Movement study - Villa Park Dam
6. Movement study - Sulphur Creek Dam
7. Secondary Levels - Approximately 33 miles on the following O.C.F.C.D. channels: B02, F02, F06, F03, F07, I02, J01, L02, A03, F07S01, and B01P08
8. Scour studies - Approximately 51 miles on the following O.C.F.C.D. Channels: L03, C05, D01, D02, D03, E01, E04, F06, L01, L02, and F05
9. Flag R/W - Approximately 5 miles on the following O.C.F.C.D. Channels: E01, L03, C03, B02, J01, C05, E08, and B01; and on Garden Grove Blvd. and at Serrano Regional Park.
10. Postings for Districts, Sheriff and abandonments - 25 various jobs
11. Flood Plain Zoning Maps - San Diego Creek
12. Flood Plain Zoning Maps - Peters Canyon Wash

PRELIMINARY SURVEYS

Approximately 75 miles of preliminary surveys have been accomplished during 1975. These surveys are used as a basis for planning and design of various EMA projects. Following are the locations of these surveys:

	PROJECT	PROJECT LIMITS
1.	Seventeenth Street	Hewes Ave to Gimbert Lane
2.	Monte Vista Ave.	La Habra to 300' S'ly
3.	Sumner Place	Crescent to Merten
4.	Merten Ave.	Sumner to Moody
5.	Van Buren St.	Bishop to McFadden
6.	Pacific Place	150' W/O Berry to Gilbert
7.	Forster Canyon Disposal Station	X-Section
8.	Olinda Disp. Sta. Access Rd.	Sta. 34 + 70 to Sta. 53 + 14
9.	Transfer Sta. No. 2	Monthly Ramp Profile
10.	Brea Creek Storm Drain	Brea Creek Channel to Dale St.
11.	Lampson Storm Drain (C03P05)	C03 thru Beach Blvd.
12.	Lampson Storm Drain	Lampson to 1000 +- W/O Beach Blvd.
13.	Santa Ana River	Garfield to S.D. Frwy.
14.	Fullerton CR. A01	Lemon St. thru Balcom St.
15.	Fullerton Cr. Ch.	Balcom Ave. to Sta. 50 S.
16.	Palm-Valencia Storm Drain E03	E03 to Nly of Yorba Linda Blvd.
17.	Palm-Valencia Storm Drain	E03 @ Palm, NW'ly along Palm to Valencia, N'ly on Valencia
18.	Broadway Storm Drain	Gilbert St. to Brookhurst Ave.
19.	Aliso Crk. Retarding Basin	J01B01 at Second St (Sewer Elev.)

PRELIMINARY SURVEYS

	PROJECT	PROJECT LIMITS
20.	Cerritos Storm Drain	S/O Cerritos Ave. to 150' E/O Florence Ave.
21.	Glenview Storm Drain	Atwood Ch. to Yorba Linda Res.
22.	Anaheim Barber City Chan.	150' U/S & D/S of Exist. 8'x8' Culvert @ Edwards St.
23.	Anaheim Barber City Chan.	150' U/S & D/S of Exist. Triple RCB & 200' North along Navy RR Track
24.	Seal Beach Storm Drain (COOP 02)	Seal Beach Blvd. to Bolsa Ave.
25.	Anaheim Barber City Channel	Sioux Rd. to Edwards St.
26.	Westminster Channel	San Diego Fwy. to Chestnut St.
27.	Santa Ana River E01	Sta. 260 to 526, SD Fwy. to 17th St.
28.	E.G.G. Wintersburg	Tide Gates thru Golden West to Sta. 180
29.	E.G.G. Wintersburg	Beach Blvd. to Brookhurst
30.	Richfield Channel	Buena Vista thru Casa Loma
31.	Talbert Channel D02	Confl. D02 & D05 to Garfield
32.	Aliso Creek Channel	U. S. Muirlands Blvd.
33.	Cambridge Storm Drain	Chapman @ Cambridge-Pothole
34.	Rainbow Storm Drain	Rainbow Dr. @ Browning Ave.
35.	Golden Lantern Storm Drain	S'ly of P.C.H. to Selva Rd. & Golden Lantern
36.	Cerritos Storm Drain	Cerritos Ave. to Florence St.
37.	Lampson Storm Drain	Lampson @ Beach Blvd.
38.	Kimberly Storm Drain	Kimberly Ave. & Raymond Ave.
39.	Fullerton Crk A03	State College to Almira

PRELIMINARY SURVEYS

	PROJECT	PROJECT LIMITS
40.	Riverdale Rest Stop	Riverside Fwy. to Roxanne St.
41.	Cambridge Storm Dr, EO8P12	Along Cambridge St. from Santiago Crk. to Chapman
42.	Cambridge Storm Drain	Topo Survey & X-Sec.
43.	Santa Ana River	Atlanta D/S to Outlet & Ocean
44.	Katella Yard Enlargement	OCFCD Property
45.	Santa Ana River	Bike Trail - Katella to Lincoln
46.	Santa Ana River Trail	@ Ball Rd.
47.	Santa Ana River	Bike Trail - Lincoln to Tustin
48.	Sunset Aquatic Park	Dredge Disposal Site
49.	Laguna Niguel Regional Park	Parking Lot Expansion
50.	So. Pacific Bike Trail	Crossing Irvine, Chapman & Santiago Creek
51.	Ball Road	Bridge over S.A. River
52.	Del Obispo St. Bridge	@ Trabuco Creek
53.	Hamilton-Victoria	Bridge over S.A. River
54.	Main St. Bridge	Widening @ Santiago Creek
55.	McFadden Bridge	@ S.A. River
56.	Jamboree Blvd. Bridge	@ San Diego Creek
57.	Alicia Pkwy.	900'+- N'ly S.D. Fwy. to Muirlands Blvd.
58.	Alicia Parkway	Sta. 52+20 to Sta 56+20
59.	El Modena Redevelopment	Pearl St. to Hewes on Earlham St.
60.	El Toro Road	From 1.4 to 2.4 Mi. N/Trabuco

PRELIMINARY SURVEYS

	PROJECT	PROJECT LIMITS
61.	Jefferson Street	Orangethorpe to Mira Loma Ave.
62.	Los Alisos Blvd.	Muirlands to Jeronimo
63.	Los Alisos Blvd.	Muirlands Blvd. to Jeronimo Rd.
64.	Los Alisos Blvd.	Muirlands to Jeronimo
65.	Los Alisos Blvd.	Muirlands Blvd. to Jeronimo Rd.
66.	Melrose Ave.	La Jolla Ave to Mira Loma Ave.
67.	Moulton Parkway	Ridge Route Dr. to 1500'+-N/O
68.	Sand Canyon Ave.	Trabuco Rd. to Irvine Blvd.
69.	St. of the Golden Lantern	PCH to +- 430' N/O Acapulco Dr.
70.	Stonehill Drive	Avco Prop. Line to Golden Lantern
71.	Trabuco Road	El Toro to Mission Viejo R/O Line
72.	PCH & Beach Rd.(Signal)	PCH & Beach Rd. (Palisades)
73.	Main Street	0.13 to 0.32 Mi. SE Red Hill
74.	Villa Park Fire Station	Villa Park Rd-Linda Vista St. to 800' W'ly
75.	Harbor Blvd. @ Heil	300' S/O to 600' N/O Heil Ave.
76.	Andora-Ashgrove Drive	Andora Dr. - 450' E/Mercado
77.	Perdido Street	Lullaby Ln. to Chanticleer Rd.
78.	Rosebay Street	Random Dr. to Orange Ave.
79.	Sunset Beach	X-Sec for Drainage
80.	Rossmoor Intersections	Los Alamitos
81.	Sidewalk @ Palisades	Camino Capistrano to P.C.H.
82.	Sidewalks @ Palisades	@ Gazebo area

PRELIMINARY SURVEYS

	PROJECT	PROJECT LIMITS
83.	Laurinda Way	17th St. to 500' N'ly
84.	Howland Way	17th St. S'ly to Wellington
85.	Wellington Ave.	Howland to Prospect
86.	Ave Palmar, Ryals Ln. & Center Street.	Santiago Blvd. E. to City Limits
87.	El Toro Community Park	All Flood Property Los Alisos & Larkwood
88.	El Toro Rd - Sidewalk	Avenida Sevilla to 800' West
89.	Rossmoor Park	Topo Survey
90.	El Toro Community Park	Contour Maps
91.	Santa Ana River E01	Ball Road to Fletcher Ch. E10
92.	Crawford Canyon Road	Cresthaven to 150' N'ly
93.	La Paz & La Cresta	Silver Lantern to Copper Lantern
94.	Wembly Road	Coolridge to S'ly bndry @11642 Wembly
95.	Hewes Avenue	17th St. to 400' N/O Dodge
96.	La Sierra Place	NE'ly end Cul-de-sac to 500' SW'ly
97.	Fullerton Creek Channel	Lemon St. to Kimberly Storm Drain
98.	Santa Ana River	N/O Lincoln
99.	Huntington Beach Pump Sta.	Movement check
100.	Santa Ana River E01	E10 to Lincoln & E-10 to Taft
101.	East G.G. Wintersburg	Tide Gates to 606
102.	East G.G. Wintersburg	S.D.Frwy to Magnolia
103.	East G.G. Wintersburg	Springdale to Golden West

PRELIMINARY SURVEYS

	PROJECT	PROJECT LIMITS
104.	Huntington Beach Ch. D01	Total length
105.	Talbert Channel D02	Total length
106.	Santa Ana River E01	Parcel #1108.02

CONSTRUCTION SURVEYS

Approximately 26 miles of construction surveys were completed during 1975. These surveys were made for the construction of the following projects:

	PROJECT	PROJECT LIMITS
1.	Serrano Creek	Bake Pkwy R.C.B.
2.	Bolsa Grande Storm Drain	C04502 Magnolia to G.G.Frwy
3.	Yorba Linda Res.Barrier	@ Yorba Reservoir
4.	Estrella Stm Drain M00S01	Beach Outlet - Camino Capistrano
5.	Brea Creek Channel A02	Stake R/W Fence - Rt. side
6.	Huntington Beach Storm Drain	D01P05 Adams to Newland
7.	Santa Ana Gardens	F02 MacArthur to Alton
8.	Santa Ana Delhi Channel	F01 Anton St to Sunflower
9.	Santa Ana River E01	550' So Garfield to 600' N. of S.D. Frwy
10.	Fullerton Creek Channel	Harbor Blvd thru Lemon St
11.	Red Hill Channel	F13 Shepard to Keirsey
12.	Glenview E04P01	Atwood Ch to Yorba Reservoir
13.	Anaheim Barber City Ch	@ Edwards St Culvert C03
14.	West Washington Storm Drain	C05P23 in Harper St (RR to 17th)
15.	Seal Beach Pump Sta	Pump Station
16.	Santa Ana River	Rock Drop Structure @ Orangewood Ave
17.	Rainbow & Arroyo	Storm Drains F13 P05 & F13 P01
18.	Camino Capistrano Drain M00P04	Estrella to Ely of Del Ray
19.	Capistrano Palisades Dr M00P01	Calle Fortuna to San Diego Frwy

CONSTRUCTION SURVEYS

	PROJECT	PROJECT LIMITS
20.	Brea Creek Ch. Horse	E of Dale Street to E of Meadowbrook
21.	Brea Creek Ch. Bike	E of Dale Street to E of Meadowbrook Way
22.	Carbon Canyon Channel	U.S. Crowther @ Chapman (new)
23.	Santa Ana Delhi Channel	Confluence F01 & F03 Channel Permit #20273
24.	Mile Square Reg Park	Control Surveys
25.	Yorba Park	U.S. Imperial to Weir Canyon
26.	Dana Point Harbor	Project Entry Sign
27.	Campus Drive	Bridge @ San Diego Creek
28.	Del Obispo St. Bridge	@ Trabuco Creek
29.	Moody St. Bridge	@ Coyote Creek
30.	Slater-Segerstrom	Bridge Const. S.A. River
31.	Camino de Estrella	89' W'ly C. Hermosa 233' E'ly of C. Del Sol
32.	Campus Drive	Jamboree to University Dr.
33.	Doheny Park Road	@ Victoria (signal)
34.	El Toro Road	Bridger Rd TC Rockfield Blvd
35.	El Toro Road	@ Bridger, Carlota, S.D. Frwy (Signal)
36.	Harbor-La Paz	@ Heil-Rickenbacker to Chrisanta
37.	La Pata	Ortega Hwy to Prima Deshecha
38.	Muirlands Blvd.	El Toro Rd to Los Alisos
39.	Ridge Route Drive	Grade separation @ A.T.S.F. RR.
40.	Stonehill Drive	Avco Pl to Golden Lantern

CONSTRUCTION SURVEYS

	PROJECT	PROJECT LIMITS
41.	Walnut Avenue	Storm Drain @ Atherton & Tenby
42.	Bullard Lane Bridge	Over La Colina-Red Hill Storm Channel
43.	Danny Avenue	Walker to Cypress
44.	Foster Road	@ Bostonian Dr & @ Piedmont Ave
45.	Grovemont-Norwood	Tustin to Deodar & Prospect to Livingston
46.	Mossler Street	Yorkshire to Orangewood
47.	Olympic Ave	130' W/O to 800' E/O Canadian
48.	Sunset Beach Parking	Warner to Anderson
49.	Fairview Road	Storm Drain
50.	Irvine Blvd.	@ Myford & Jeffrey to Lambert
51.	El Toro Road	@ Calle Sonora
52.	Permit No. 10248	Curb Stakes - Bishop Street
53.	Atwood Channel E04	Permit #22274
54.	Santa Ana Avenue	S/O Palisades to Del Mar

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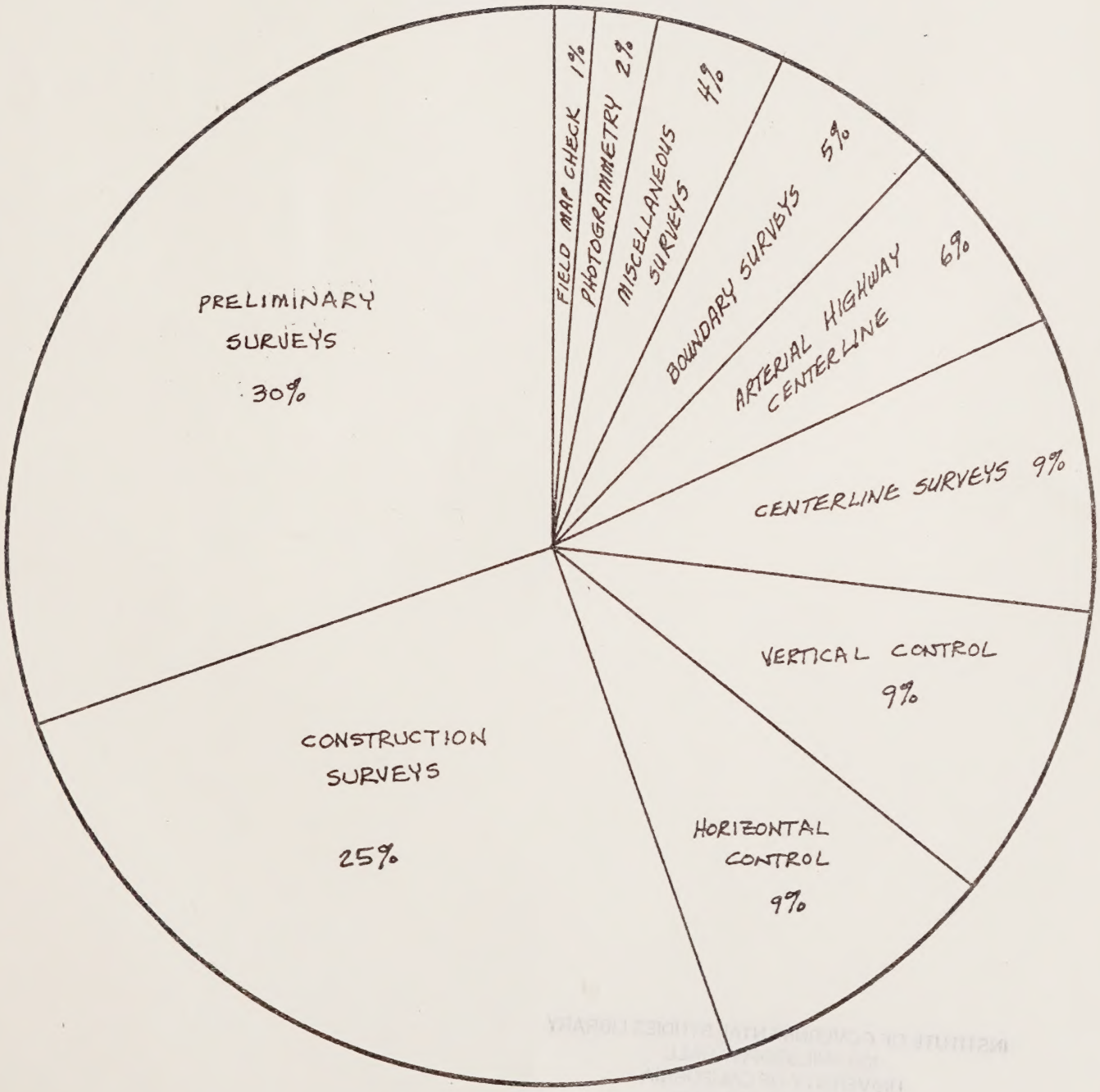

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